

REMARKS

Support for amended claims 1, 8, 11, 12, 19, and 20 can be found in the specification on page 8, lines 17-25 which discuss membrane proteins. Support for new claim 21 can be found in the specification on page 11, lines 26-29 which discuss infection of the larvae by injection.

CONCLUSION

In view of the foregoing, Applicants request the entry of the amendments prior to the initial examination.

VERSION WITH MARKINGS SHOWING CHANGES MADE

IN THE CLAIMS:

CLAIM 1:

1. (once amended) A method for producing a recombinant membrane protein in an insect larvae expression system, the method comprising:

(a) infection of larvae with a vector that has a nucleic acid sequence that encodes a recombinant membrane fusion protein with an affinity tag wherein the recombinant membrane protein is expressed in the larvae; and

(b) purification of the recombinant membrane protein from said larvae by affinity chromatography.

CLAIM 2: CANCELLED

CLAIM 8:

8. (once amended) The method of claim 1 further comprising isolation of a protein fraction from the larvae wherein the fraction contains the recombinant membrane fusion protein with the affinity tag.

CLAIM 11:

11. (once amended) The method of claim 1 further comprising the removal of the affinity tag from the recombinant membrane fusion protein.

CLAIM 12:

12. (once amended) The method of claim 1 wherein the recombinant membrane fusion protein is selected from the class of

proteins consisting of transport, channel forming, receptor, junctional, cytoskeletal, and other membrane associated proteins.

CLAIM 19:

19. (once amended) The method of claim 1 wherein the recombinant membrane fusion protein has biological activity substantially the same as the native form of the protein.

CLAIM 20:

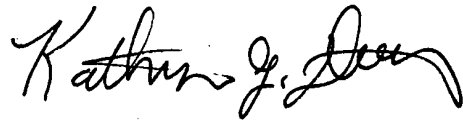
20. (once amended) The method of claim 1 wherein the recombinant membrane fusion protein has substantially the same structure as the native form of the protein.

CLAIM 21: NEW

UMO 1531.1
Patent

If there are any additional charges in this matter, please
charge Deposit Account No. 19-1345.

Respectfully submitted,

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